

Amendments to the Claims

Please amend claims 9, 26, 34 and 39 as follows. This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1 1. (Original) A method for geographic location determination based at least in part on inspection of a network address of a client, the method comprising:
 - 3 performing a trace route between a server and the address of the client, the trace route identifying at least one domain name in a route between the server and the client;
 - 5 identifying a construction format for the domain name;
 - 6 identifying a geographically significant component of the domain name; and
 - 7 determining a geographic location for the domain name based at least in part on the geographically significant component.
- 9
- 10 2. (Original) The method of claim 1, further comprising:
 - 11 analyzing domain names associated with a network access provider so as to identify the construction formats for said domain names;
 - 13 identifying geographically significant components of said construction components; and
 - 15 storing cross-references between said geographically significant components and geographic locations in a storage.
- 17
- 18 3. (Original) The method of claim 1, further comprising:
 - 19 validating said determined geographic location by performing at least one

1 validating said determined geographic location by performing at least one
2 alternate geographic determination for the network address.

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4 4. (Original) The method of claim 3, further comprising:
5 determining more than one geographic location for the network address; and
6 ranking said determined geographic locations in accordance with the number of
7 alternate geographic location determinations consistent with said determined
8 geographic locations.

9

10 5. (Original) The method of claim 1, further comprising:
11 providing a regular expression corresponding to the construction format;
12 matching the regular expression against the domain name; and
13 identifying a geographically significant portion of the regular expression so as to
14 facilitate said identifying the geographically significant component of the domain name.

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16 6. (Original) The method of claim 1, wherein said performing the trace route
17 is performed from the server to the client.

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19 7. (Original) The method of claim 1, wherein said performing the trace route
20 is performed from the client to the server.

21

22 8. (Original) A method for determining a geographic location for a network
23 address, comprising:

1 receiving a trace route comprising first and second network host identifiers for
2 hosts disposed between a server and a client on a network;
3 matching the first network host identifier to a first template;
4 first parsing the first network host identifier according to the first template; and
5 identifying an estimated geographic location for the client based at least in part
6 on said first parsing.

7

8 9. (Currently Amended) The method of claim 8, further comprising:
9 matching the second network host identifier to a second template;
10 second parsing the second network host identifier according to the second
11 template; and
12 revising said estimated geographic location based at least in part on said second
13 first parsing.

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15 10. (Original) The method of claim 8, further comprising:
16 revising said estimated geographic location based at least in part on a client
17 profile associated with the client.

18

19 11. (Original) The method of claim 10, further comprising:
20 said client contacting the server with the web browser, said browser providing the
21 client profile to the server.

22

23 12. (Original) The method of claim 10, wherein the client profile is based at

1 least in part on a customer database identifying the client.

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3 13. (Original) The method of claim 10, wherein the client profile is based at

4 least in part on a mass-marketing database identifying the client.

5

6 14. (Original) A method of determining a geographic location, comprising:

7 creating a log comprising network addresses of clients that have communicated

8 with a web server;

9 filtering the log so as to remove undesirable network addresses;

10 asynchronously performing a trace route between a first one of said filtered

11 network addresses and the server;

12 analyzing a result of said asynchronous performed trace route; and

13 determining a geographic location for said first one responsive to said analyzing.

14

15 15. (Original) The method of claim 14, further comprising:

16 generating a report comprising geographic locations for clients that have

17 communicated with the web server.

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19 16. (Original) The method of claim 14, wherein said determining the

20 geographic location comprises:

21 matching the result against a template identifying geographically significant

22 portions of network addresses formatted in compliance with the template.

23

1 17. (Original) The method of claim 14, wherein undesirable network
2 addresses comprise network addresses already having a known geographic location.
3

4 18. (Original) An apparatus for geographic location determination based at
5 least in part on inspection of a network address of a client comprising a readable
6 medium having instructions encoded thereon for execution by a processor, said
7 instructions capable of directing the processor to perform:

8 performing a trace route between a server and the address of the client, the trace
9 route identifying at least one domain name in a route between the server and the client;
10 identifying a construction format for the domain name;
11 identifying a geographically significant component of the domain name; and
12 determining a geographic location for the domain name based at least in part on
13 the geographically significant component.

14

15 19. (Original) The apparatus of claim 18, said instructions including further
16 instructions capable of directing the processor to perform:

17 analyzing domain names associated with a network access provider so as to
18 identify the construction formats for said domain names;
19 identifying geographically significant components of said construction
20 components; and
21 storing cross-references between said geographically significant components
22 and geographic locations in a storage.

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1 20. (Original) The apparatus of claim 18, said instructions including further

2 instructions capable of directing the processor to perform:

3 validating said determined geographic location by performing at least one

4 alternate geographic determination for the network address.

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6 21. (Original) The apparatus of claim 20, said instructions including further

7 instructions capable of directing the processor to perform:

8 determining more than one geographic location for the network address; and

9 ranking said determined geographic locations in accordance with the number of

10 alternate geographic location determinations consistent with said determined

11 geographic locations.

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13 22. (Original) The apparatus of claim 18, said instructions including further

14 instructions capable of directing the processor to perform:

15 providing a regular expression corresponding to the construction format;

16 matching the regular expression against the domain name; and

17 identifying a geographically significant portion of the regular expression so as to

18 facilitate said identifying the geographically significant component of the domain name.

19

20 23. (Original) The apparatus of claim 18, wherein said performing the trace

21 route is performed from the server to the client.

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23 24. (Original) The apparatus of claim 18, wherein said performing the trace

1 route is performed from the client to the server.

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3 25. (Original) An apparatus for determining a geographic location for a
4 network address comprising a readable medium having instructions encoded thereon
5 for execution by a processor, said instructions capable of directing the processor to
6 perform:

7 receiving a trace route comprising first and second network host identifiers for
8 hosts disposed between a server and a client on a network;

9 matching the first network host identifier to a first template;
10 first parsing the first network host identifier according to the first template; and
11 identifying an estimated geographic location for the client based at least in part
12 on said first parsing.

13

14 26. (Currently Amended) The apparatus of claim 25, said instructions
15 including further instructions capable of directing the processor to perform:
16 matching the second network host identifier to a second template;
17 second parsing the second network host identifier according to the second
18 template; and
19 revising said estimated geographic location based at least in part on said second
20 first parsing.

21
22 27. (Original) The apparatus of claim 25, said instructions including further
23 instructions capable of directing the processor to perform:

1 revising said estimated geographic location based at least in part on a client
2 profile associated with the client.

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4 28. (Original) The apparatus of claim 27, said instructions including further
5 instructions capable of directing the processor to perform:
6 said client contacting the server with the web browser, said browser providing the
7 client profile to the server.

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9 29. (Original) The apparatus of claim 27, wherein the client profile is based at
10 least in part on a customer database identifying the client.

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12 30. (Original) The apparatus of claim 27, wherein the client profile is based at
13 least in part on a mass-marketing database identifying the client.

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15 31. (Original) An apparatus for determining a geographic location comprising
16 a readable medium having instructions encoded thereon for execution by a processor,
17 said instructions capable of directing the processor to perform:
18 creating a log comprising network addresses of clients that have communicated
19 with a web server;
20 filtering the log so as to remove undesirable network addresses;
21 asynchronously performing a trace route between a first one of said filtered
22 network addresses and the server;
23 analyzing a result of said asynchronous performed trace route; and

1 determining a geographic location for said first one responsive to said analyzing.

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3 32. (Original) The apparatus of claim 31, said instructions including further
4 instructions capable of directing the processor to perform:

5 generating a report comprising geographic locations for clients that have
6 communicated with the web server.

7

8 33. (Original) The apparatus of claim 31, wherein said instructions for
9 determining the geographic location comprises instructions for:
10 matching the result against a template identifying geographically significant
11 portions of network addresses formatted in compliance with the template.

12

13 34. (Currently Amended) The apparatus of claim 31 [30], wherein
14 undesirable network addresses comprise network addresses already having a known
15 geographic location.

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17 35. (Original) An apparatus for geographic location determination based at
18 least in part on inspection of a network address of a client, the apparatus comprising:
19 performing means for performing a trace route between a server and the address
20 of the client, the trace route identifying at least one domain name in a route between the
21 server and the client;
22 identifying means for identifying a construction format for the domain name;
23 identifying means for identifying a geographically significant component of the

1 domain name; and
2 determining means for determining a geographic location for the domain name
3 based at least in part on the geographically significant component.

4

5 36. (Original) The apparatus of claim 35, further comprising:
6 analyzing means for analyzing domain names associated with a network access
7 provider so as to identify the construction formats for said domain names;
8 identifying means for identifying geographically significant components of said
9 construction components; and
10 storing means for storing cross-references between said geographically
11 significant components and geographic locations in a storage.

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13 37. (Original) The apparatus of claim 36, further comprising:
14 validating means for validating said determined geographic location by
15 performing at least one alternate geographic determination for the network address.

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17 38. (Original) An apparatus for determining a geographic location for a
18 network address, comprising:
19 receiving means for receiving a trace route comprising first and second network
20 host identifiers for hosts disposed between a server and a client on a network;
21 matching means for matching the first network host identifier to a first template;
22 first parsing means for parsing the first network host identifier according to the
23 first template; and

1 identifying means for identifying an estimated geographic location for the client
2 based at least in part on said first parsing.

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4 39. (Currently Amended) The apparatus of claim 38, further comprising:
5 matching means for matching the second network host identifier to a second

6 template;
7 second parsing means for parsing the second network host identifier according to
8 the second template; and
9 revising means for revising said estimated geographic location based at least in
10 part on said second first parsing.

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12 40. (Original) The apparatus of claim 38, further comprising:
13 revising means for revising said estimated geographic location based at least in
14 part on a client profile associated with the client.

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16 41. (Original) An apparatus for determining a geographic location, comprising:
17 creating means for creating a log comprising network addresses of clients that
18 have communicated with a web server;
19 filtering means for filtering the log so as to remove undesirable network
20 addresses;
21 asynchronous tracing means for asynchronously performing a trace route
22 between a first one of said filtered network addresses and the server;
23 analyzing means for analyzing a result of said asynchronous performed trace

1 route; and
2 determining means for determining a geographic location for said first one
3 responsive to said analyzing.

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5 42. (Original) The apparatus of claim 41, further comprising:
6 generating means for generating a report comprising geographic locations for
7 clients that have communicated with the web server.

8
9 43. (Original) The apparatus of claim 41, wherein said determining means for
10 determining the geographic location comprises:
11 matching means for matching the result against a template identifying
12 geographically significant portions of network addresses formatted in compliance with
13 the template.